

SEQUENCE LISTING

<110> Syngenta Ltd

<120> Improvements in or Relating to Organic Compounds

<130> 70298

<150> GB 0318109.6

<151> 2004-08-01

<160> 43

<170> PatentIn version 3.1

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<212> PRT

<213> Lepista nuda

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Ala Lys Ser Gly Thr Val Val Asp Leu Ser Gly Glu Asp Asn Lys Ser
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Ile Ile Gly Phe Pro Lys His Gly Gly Thr Asn Gln Arg Trp Thr Leu
 35 40 45

Asn Trp Thr Gly Lys Ser Trp Thr Phe Arg Ser Val Ser Ser Glu Met
 50 55 60

Tyr Leu Gly Leu Asn Gly Ser Pro Ser Asp Gly Thr Lys Leu Val Ala
 65 70 75 80

Val Thr Thr Pro Val Glu Trp His Ile Trp His Asp Glu Val Asp Pro
85 90 95

Ser Thr Tyr Arg Ile Phe Val Pro Phe Thr Thr Phe Asn Met Asp Leu
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Tyr Ala Gln Gly Ser Ala Ala Pro Gly Thr Pro Ile Thr Thr Trp Tyr
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<213> *Lepista nuda*

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tcttctgaaa tgtatcttgg cctgaatggc tcgccgtctg atggaacaaa actggtagcc 240
gtgaccaccc ctgttgagtg gcacatctgg cacgacgaag ttgacccttc aacttatcgt 300
atctttgtac ctttcaccac attcaacatg gacctctacg cccaaggtag tgccgcccct 360
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<213> *Lepista nuda*

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<223> Xaa is glutamine or lysine

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Glu Xaa Glu Xaa Val Xaa Ser Gly Xaa Thr Tyr Xaa Xaa Thr Asn Ala
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Lys

<210> 4

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<223> Xaa is leucine or isoleucine

<400> 4

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Val | Ala | Val | Thr | Thr | Pro | Val | Glu | Trp | His | Xaa | Trp | His | Asp | Glu |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

| | | | |
|-----|-----|-----|-----|
| Val | Asp | His | Thr |
| | | | 20 |

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| Trp | Ser | Ser | Glu | Met | Tyr | Xaa | Gly | Xaa | Asn | Gly | Ser | Pro | Ser | Asp | Gly |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

Thr Lys

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| Ala | Val | Thr | Thr | Pro | Val | Glu | Trp | His | Xaa | Trp | His | Asp | Glu | Val | Asp |
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<223> Xaa is phenylalanine or oxidised methionine

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<223> Xaa is leucine or isoleucine

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Thr Val Asp Xaa Ser
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<223> Xaa is glutamine or lysine

<400> 10

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|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Xaa | Ser | Ala | Ala | Pro | Gly | Ser | Ser | His | Thr | Thr | Gly | Glu | Tyr | Thr | Trp |
| 1 | | | | 5 | | | | | 10 | | | | | 15 | |

Lys

<210> 11

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<213> Lepista nuda

<400> 11

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<223> I

<220>

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<222> (15) .. (15)

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<222> (18) .. (18)

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<210> 13

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<210> 14

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<400> 20

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<210> 21

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<212> DNA

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<223> Primer

<400> 21

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<210> 22

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<213> Artificial Sequence

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<223> Primer

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<210> 23

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<400> 23

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<211> 21

<212> DNA

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<400> 26

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19

<210> 27

<211> 20

<212> DNA
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<223> Primer

<400> 27
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20

<210> 28

<211> 21

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<223> Primer

<400> 28
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21

<210> 29

<211> 21

<212> DNA

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<400> 29
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21

<210> 30

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<212> DNA

<213> Lepista nuda

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gtttttctct tccagtttct accatgtcgc aagaaattgt tcaatcagga caaacctaca 180
tcatcactaa cgccaaatcc ggcacagttg ttgaccttcc gggcgaagac aacaaatcta 240
ttattggatt tcccaagcat ggaggaacaa atcagaggtg gacctcaac tggacaggga 300
agagttggac tttccgctcc gtttcttctg aaatgtatct tggcctgaat ggctcgccgt 360
ctgatggaac aaaactggta gccgtgacca cccctgttga gtggcgcac tggcacga 418

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<213> Lepista nuda

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Ala Lys Ser Gly Thr Val Val Asp Leu Ser Gly Glu Asp Asn Lys Ser
20 25 30

Ile Ile Gly Phe Pro Lys His Gly Gly Thr Asn Gln Arg Trp Thr Leu
35 40 45

Asn Trp Thr Gly Lys Ser Trp Thr Phe Arg Ser Val Ser Ser Glu Met
50 55 60

Tyr Leu Gly Leu Asn Gly Ser Pro Ser Asp Gly Thr Lys Leu Val Ala
65 70 75 80

Val Thr Thr Pro Val Glu Trp Arg Ile Trp His
85 90

<210> 32

<211> 211

<212> DNA

<213> Lepista nuda

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gttcaatcag gacaaaccta catcatcact aacgccaaat ccggcacagt tggtgacctt 120
tcgggcgaag acaacaaatc tattattgga tttcccaagc atggaggaac aaatcagagg 180
tggaccctca actggacagg gaagagttgg a 211

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<213> Lepista nuda

<400> 33

Met Ser Gln Glu Ile Val Gln Ser Gly Gln Thr Tyr Ile Ile Thr Asn
1 5 10 15

Ala Lys Ser Gly Thr Val Val Asp Leu Ser Gly Glu Asp Asn Lys Ser
20 25 30

Ile Ile Gly Phe Pro Lys His Gly Gly Thr Asn Gln Arg Trp Thr Leu
35 40 45

Asn Trp Thr Gly Lys Ser Trp
50 55

<210> 34

<211> 493

<212> DNA

<213> Lepista nuda

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ctgaaatgta tcttggcctg aatggctcgc cgtctgatgg aacaaaactg gtagccgtga 180
ccaccctgt tgagtggcac atctggcacg acgaagtga cccttcaact tatcgtatct 240
ttgtaccttt caccacattc aacatggacc tctacgccca rggtagtgcc gcccttggtgta 300

cgctatcac aacttggtat acatggaagg gyatccacca aacgtggagg tttgaactag 360
 cttaggktca ggtttcggat gtaatttgtg tgtgtaaadc ttcttgacc atgttgtgt 420
 tttattgtac tccgcttgtt atcattatac ccacctatgt tgcaacatct ttttggatcc 480
 caaaaaaaaaaaa aaa 493

<210> 35

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<213> Lepista nuda

<400> 35

Val Asp Leu Ser Gly Glu Asp Asn Lys Ser Ile Ile Gly Phe Pro Lys
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His Gly Gly Thr Asn Gln Arg Trp Thr Leu Asn Trp Thr Gly Lys Ser
 20 25 30

Trp Thr Phe Arg Ser Val Ser Ser Glu Met Tyr Leu Gly Leu Asn Gly
 35 40 45

Ser Pro Ser Asp Gly Thr Lys Leu Val Ala Val Thr Thr Pro Val Glu
 50 55 60

Trp His Ile Trp His Asp Glu Val Asp Pro Ser Thr Tyr Arg Ile Phe
 65 70 75 80

Val Pro Phe Thr Thr Phe Asn Met Asp Leu Tyr Ala Gln Gly Ser Ala
 85 90 95

Ala Pro Gly Thr Pro Ile Thr Thr Trp Tyr Thr Trp Lys Gly Ile His
 100 105 110

Gln Thr Trp Arg Phe Glu Leu Ala
 115 120

<210> 36

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<213> *Lepista nuda*

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ggattttcca agcatggagg aacaaatcag aggtggaccc tcaactggac agggaagagt 180
tggactttcc gctccgtttc ttctgaaatg tatcttggcc tgaatggctc gccgtctgat 240
ggaacaaaac tggtagccgt gaccaccct gttgagtggc acatctggca cgacgaagtt 300
gacccttcaa cttatcgat ctttgtacct ttcaccacat tcaacatgga cctctacgcc 360
caaggtagt cgcctctgg tacgcctatc acaacttggg atacatggaa gggcatccac 420
caaacgtgga gggttgaact agcttagggg cagggttcgg atgtaatttg t 471
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<212> DNA

<213> *Lepista nuda*

<400> 37

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tcgttttttag tcccatgttt ttttttgtca aaaaaaattg actgacatat tttgtctcca 180
gttattggat ttcccaagca tggaggaaca aatcagaggg taggtctaga aatgcacctc 240
gttaatatgg gtttttattg acattcatga acagtggacc ctcaactgga cagggaagag 300
ttggactttc cgctccgttt cttctgaaat gtatcttggc ctgaatggct cgccgtctga 360
tggaacaaaa ctggtagccg tgaccacccc tgttgagtgg cacatctggc acgacgaagt 420
tgacccttca acttatcggg gagtccccta aatattactt gcttgtgggt cataactaata 480
cgtcgttcga agtatctttg tacctttcac cacattcaac atggacctct acgcccaggg 540
tagtgccgcc cctggtacgc ctatcacaac ttggtataca tggaagggta tccaccaaac 600
gtggagggtt gaactaggta gggcttgcca tctcaccgg atcctccatg aactaatgtg 660
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| ggcgagccat tcaggccaag atacatttca gaagaaacgg agcggaaagt ccaactcttc | 120 |
| cctgtccagt tgagggtcca cctctgattt gttcctccat gcttgggaaa tccaataata | 180 |
| gatttgttgt cttcgcccga aaggtaaca actgtgccgg atttggcgtt agtgatgatg | 240 |
| taggtttgtc ctgattgaac aatttccttc gacatggtag aaactggaag agaaaaacag | 300 |
| taggagcaaa aaaacgaggc agaaagttcc tcgtgccgaa ttcctgcagc ccgggggatc | 360 |
| cactagttct agagcggccg ccaccgcggt ggagctccag cttttgttcc ctttagta | 418 |

<210> 39

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<212> DNA

<213> *Lepista nuda* (

<400> 39

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|---|-----|
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| atccaataat agatttggtg tcttcgcccg aaaggtaaac aactgtgccg gatttggcgt | 120 |
| tagtgatgat gtaggtttgt cctgattgaa caatttcctg cgacatggta gaaactggaa | 180 |
| gagaaaaaca gtaggagcaa aaaaacgagg c | 211 |

<210> 40

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<213> *Lepista nuda*

<400> 40

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| ggagtacaat aaaagcacia catggtccaa gaagatttac acacacaaat tacatccgaa | 120 |
| acctgamcct aagctagttc aaacctccac gtttggtgga trcccttcca tgtataccaa | 180 |

| | |
|---|-----|
| gttgtgatag gcgtaccagg ggcggcacta ccytgggcgt agagggtccat gttgaatgtg | 240 |
| gtgaaaggta caaagatacg ataagttgaa ggggtcaactt cgtcgtgccca gatgtgccac | 300 |
| tcaacagggg tggtcacggc taccagtttt gttccatcag acggcgagcc attcaggcca | 360 |
| agatacattt cagaagaaac ggagcggaaa gtccaactct tccctgtcca gttgagggtc | 420 |
| cacctctgat ttgttctctc atgcttgga aatccaataa tagatttggt gtcttcgccc | 480 |
| gaaagggtcaa caa | 493 |

<210> 41

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<212> DNA

<213> *Lepista nuda*

<400> 41

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| cttccatgta taccaagttg tgataggcgt accaggggcg gcactacctt gggcgtagag | 120 |
| gtccatgttg aatgtggtga aaggtaaaaa gatacgataa gttgaagggt caacttcgtc | 180 |
| gtgccagatg tgccactcaa caggggtggt cacggctacc agttttgttc catcagacgg | 240 |
| cgagccattc aggccaagat acatttcaga agaaacggag cggaaagtcc aactcttccc | 300 |
| tgtccagttg aggggtccacc tctgatttgt tcctccatgc ttgggaaatc caataataga | 360 |
| tttgttgtct tcgcccgaac ggtcaacaac tgtgccggat ttggcgtagg tgatgatgta | 420 |
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<210> 42

<211> 706

<212> DNA

<213> *Lepista nuda*

<400> 42

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| gaggatccgg gtgagatcgc aagccctacc tagttcaaac ctccacgttt ggtggatacc | 120 |
| cttccatgta taccaagttg tgataggcgt accaggggcg gcactacctt gggcgtagag | 180 |
| gtccatgttg aatgtggtga aaggtaaaaa gataacttcca acgacgtatt agtatgaacc | 240 |

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attcaggcca agatacattt cagaagaaac ggagcggaaa gtccaactct tccctgtcca 420
gttgaggggtc cactgttcat gaatgtcaat aaaaaccaat attaacgagg tgcatttcta 480
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gtcagtcaat tttttttgac aaaaaaaaaac atgggactaa aaacgactta ctagatttgt 600
tgtcttcgcc cgaaagggtc acaactgtgc cggatttggc gttagtgatg atgtaggttt 660
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<222> (9)..(9)

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| Ser | Xaa | Glu | Xaa | Val | Xaa | Ser | Gly | Xaa | Thr | Tyr | Xaa | Xaa | Thr | Asn | Ala |
| 1 | | | | 5 | | | | 10 | | | | | | 15 | |

Lys